

# Enphase® M215



The **Enphase® Microinverter System** improves energy harvest, increases reliability, and dramatically simplifies design, installation, and management of solar power systems.

The Enphase System includes the microinverter, the Envoy® Communications Gateway,™ and Enlighten®, Enphase's monitoring and analysis software.

## PRODUCTIVE

- Maximum energy production
- Resilient to dust, debris and shading
- Performance monitoring

## RELIABLE

- System availability greater than 99.8%
- No single point of system failure

## SMART

- Quick and simple design, installation, and management
- 24/7 monitoring and analysis

## SAFE

- Low-voltage DC
- Reduced fire risk

<b>INPUT DATA (DC)</b>	<b>M215-60-2LL-S22/S23 and M215-60-2LL-S22-NA/S23-NA (Ontario)</b>
Recommended input power (STC)	190 - 270 W
Maximum input DC voltage	45 V
Peak power tracking voltage	22 - 36 V
Operating range	16 - 36 V
Min./Max. start voltage	22 V / 45 V
Max. DC short circuit current	15 A
Max. input current	10.5 A

<b>OUTPUT DATA (AC)</b>	<b>@208 VAC</b>	<b>@240 VAC</b>
Rated (continuous) output power	215 W	215 W
Nominal output current	1.0 A (Arms at nominal duration)	0.9 A (Arms at nominal duration)
Nominal voltage/range	208 / 183-229 V	240 / 211-264 V
Extended voltage/range	179-232 V	206-269 V
Nominal frequency/range	60.0 / 59.3-60.5 Hz	60.0 / 59.3-60.5 Hz
Extended frequency range	57-60.5 Hz	57-60.5 Hz
Power factor	>0.95	>0.95
Maximum units per 20 A branch circuit	25 (three phase)	17 (single phase)
Maximum output fault current	1.05 Arms, over 3 cycles; 1.04 Arms over 5 cycles	

#### **EFFICIENCY**

CEC weighted efficiency	96.0%
Peak inverter efficiency	96.3%
Static MPPT efficiency (weighted, reference EN50530)	99.6%
Dynamic MPPT efficiency (fast irradiation changes, reference EN50530)	99.3%
Night time power consumption	46 mW

#### **MECHANICAL DATA**

Ambient temperature range	-40°C to + 65°C
Operating temperature range (internal)	-40°C to + 85°C
Dimensions (WxHxD)	17.3 cm x 16.4 cm x 2.5 cm (6.8" x 6.45" x 1.0") without mounting bracket
Weight	1.6 kg (3.5 lbs)
Cooling	Natural convection - No fans
Enclosure environmental rating	Outdoor - NEMA 6

#### **FEATURES**

Compatibility	Pairs with most 60-cell PV modules
Communication	Power line
Monitoring	Free lifetime monitoring via Enlighten software
Compliance	UL1741/IEEE1547, FCC Part 15 Class B CAN/CSA-C22.2 NO. 0-M91, 0.4-04, and 107.1-01

To learn more about Enphase Microinverter technology, visit [enphase.com](http://enphase.com)

